

PRODUCT INSTRUCTIONS

	Specification Number	Catalog Section
INSTRUCTIONS	5265	1b
MODEL: Outdoor Dust Free Housing AD8CH2 & AD16CH2		

INCLUDES MODEL: AD16CH2

GENERAL INSTRUCTIONS:



HARDWARE KIT

3	Cable Tie
2	BHCS, 1/4-20 x 1/4-inch
1	BHCS, 1/4-20 x 5/8-inch
1	BHCS, 1/4-20 x 3/4-inch
1	BHCS, 1/4-20 x 1/2-inch
1	BHCS, 1/4-20 x 3/8-inch
1	BHCS, 1/4-20 x 11/4-inch
2	0.4 mm (0.016-inch) Plastic Spacer
1	1.65 mm (0.065-inch) Plastic Spacer
1	3.9 mm (0.154-inch) Plastic Spacer
1	7.4 mm (0.292-inch) Plastic Spacer
1	9.8 mm (0.385-inch) Plastic Spacer
1	3/8-inch NPT Plug
2	Pull Seals

RATINGS

NEMA-3R and IP54

The HS9384 Series housings include a "breather" hole in the front end cap. The "breather" hole prevents the accumulation of moisture inside the housing when installed in areas of high humidity. With the "breather" hole open, the AD16 housing meets the enclosure rating requirements of NEMA-3R and IP54.

NEMA-6P and IP68

For installations requiring an enclosure rating of NEMA-6P or IP68, the breather hole must be plugged using the pull seal (Part No. 315 2569 001) provided in the hardware kit. Refer to Final Assembly under INSTALLATION for proper installation.

NOTE: Do Not Exceed 30 VAC Input.

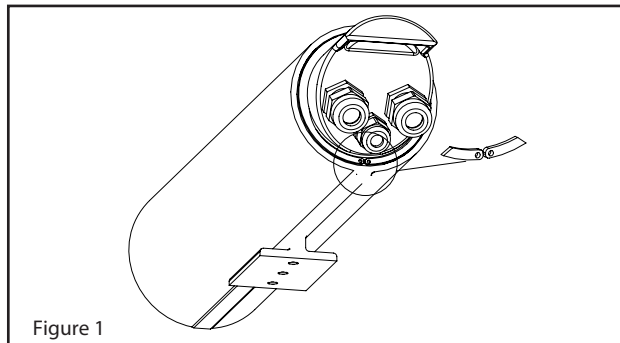
Operation above 30 VAC violates low voltage operation (Class 2 Specifications). Normal operation is 24 VAC.

CAMERA INSTALLATION

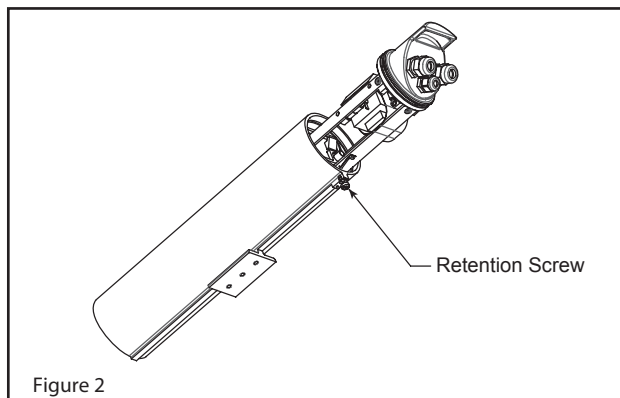
TOOLS REQUIRED

- Phillips head screwdriver
- 5/32-inch (or 4 mm) hex wrench
- 5/16-inch (or 8 mm) hex wrench
- Wire cutter/stripper/crimper tool

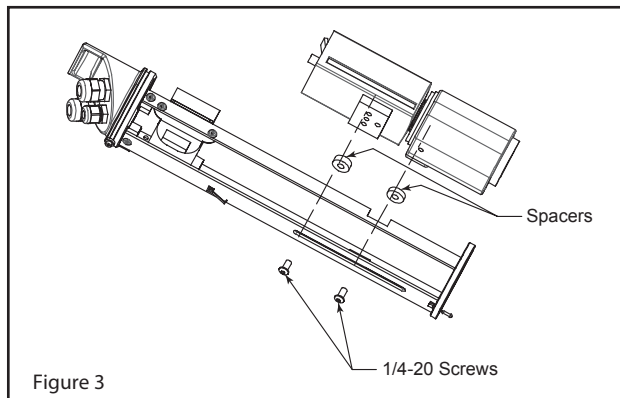
1. Remove the cradle from the housing by lowering the retaining screw completely on the bottom rear of the housing.
2. Turn slot on the retaining ring, located on the rear cap, to the bottom of the housing (Figure 1).



3. Remove the cradle assembly by pushing gently on the metal part of front cap and simultaneously grasping the rear handle and pulling the cradle assembly out of the housing. Be sure to keep the edges of the end caps clean and free of scratches (Figure 2).



4. Place the camera/lens combination into the cradle assembly. Position the camera/lens 1 mm (0.04-inch) away from the faceplate. The camera/lens is secured to the cradle with a 1/4-20 button head cap screw (BHCS) and the appropriate plastic spacer (Figure 3).



LIQUID TIGHT FITTINGS

The dual male threaded portion of the three liquid tight fittings, two NPT 1/2-inch, and one NPT 3/8-inch, located in the rear of the cradle, are provided preinstalled. Do not remove or loosen these parts. They have been installed to a specified torque to prevent entrance of water. The two large fittings are supplied with seal glands for cables with diameters from 4.3 mm (0.17-inch) to 11.9 mm (0.47-inch). The small fitting will accept cables with diameters from 4.6 mm (0.181-inch) to 7.9 mm (0.312-inch) (Figure 4).

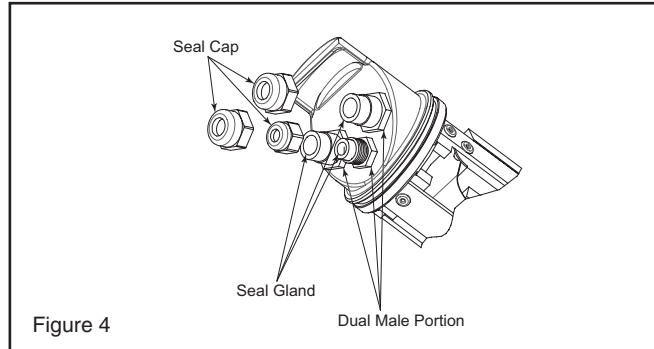


Figure 4



CAUTION: Be sure to securely tighten all fittings to ensure a liquid-tight seal. Failure to do so could allow water to enter the housing and damage the camera and lens. If a sealant is to be used, be sure it is a neutral cure type. Sealants that release acetic acid may harm camera electronics.



NOTE: Use of drip loops is recommended on the wiring outside of the rear end cap.

If no lens control or feed-through wiring will be used, remove the preinstalled 3/8-inch liquid-tight fitting from the small bottom center hole and install the 3/8-inch NPT plug provided. Use a 5/16-inch (or 8 mm) hex wrench to tighten. Failure to do so will allow water to enter and cause damage to all electronic parts (Figure 5).

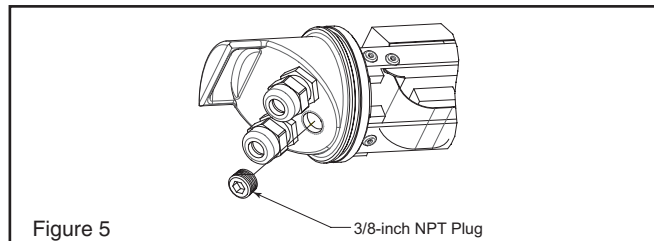


Figure 5

WIRING

1. Use the left liquid-tight fitting of the housing to route the power wire into the housing.
2. A screw/terminal lug is provided for securing a safety ground. Attach the terminal lug to the cradle using the M4 x 10 screw provided (Figure 6).

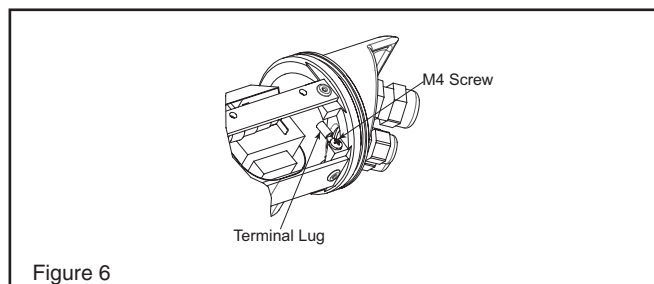


Figure 6

3. Connect the supply (24 VAC) to the quick connectors on the fuse connector (Figure 6).

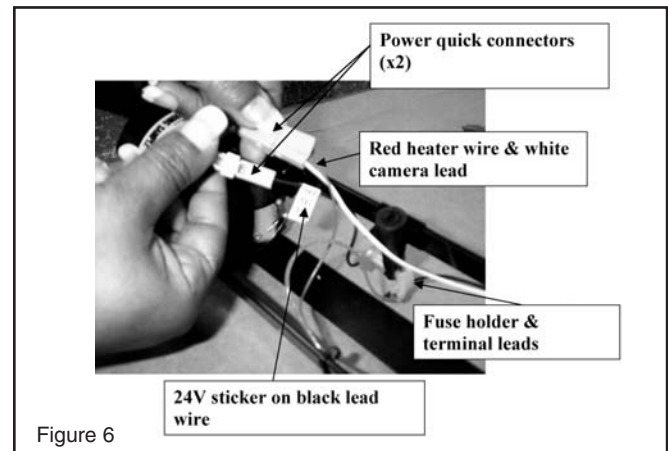


Figure 6

3. Connect the black and white leads coming out of the fuse holder to the camera (Figure 7).

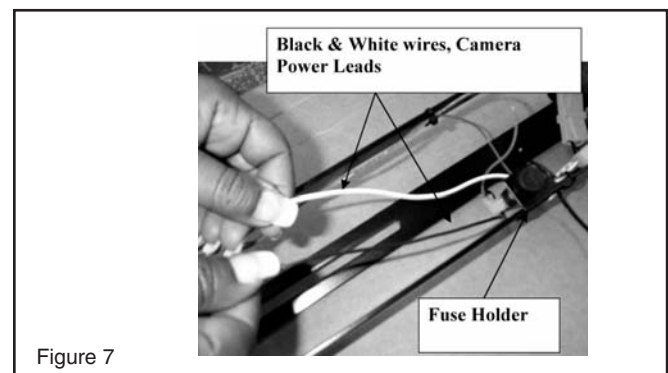


Figure 7

4. Install the seal cap portion of the large liquid tight fitting on the video coax cable and pull the cable through the right fitting on the rear end of the cradle. If lens control is used, pull cable through the small bottom fitting.
5. Attach the BNC connector to the coax and connect it to the camera. Pull any excess wire out of the cradle assembly and tighten approximately 1 to 1 1/2 turns past the point where the fitting starts to grip the wire. Failure to do so will result in water damage to all electronic parts. Use a tie wrap (included) to provide strain relief on the video cable at the exit point (inside unit).
6. Install the 3/8-inch NPT plug provided in the unused, small top center NPT hole.



CAUTION: Be sure to securely tighten all fittings to ensure a liquidtight seal. Failure to do so could allow water to enter the housing and damage the camera and lens.

FINAL ASSEMBLY



CAUTION: If the breather hole is open, do NOT mount the housing in a position where the front end cap is pointed upward.

To maintain enclosure protection ratings of NEMA-6P and IP68, the pull seal (provided in the hardware kit) must be installed in the front end cap. It is recommended that the pull seal be installed in a cool, dry environment to prevent trapping moisture inside the housing (Figure 7, next page).

NOTE: Pull seal installation allows the housing's front end cap to be pointed upward.

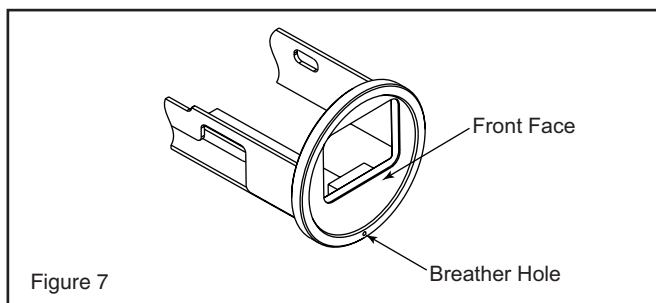


Figure 7

To install the pull seal:

1. Remove the cradle assembly from the housing.
2. Obtain a rubber pull seal from the hardware kit (Part Number 315 2569 001). An extra pull seal is also provided (Figure 8).

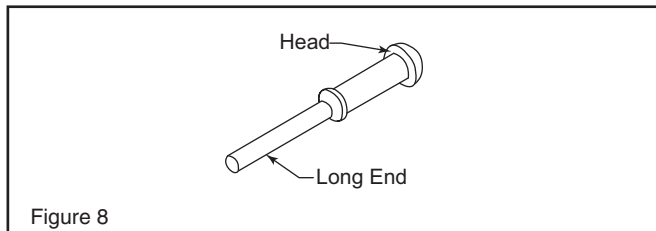


Figure 8

3. Insert the long end of the pull seal into the breather hole starting from the front side of the endcap (Figure 9).

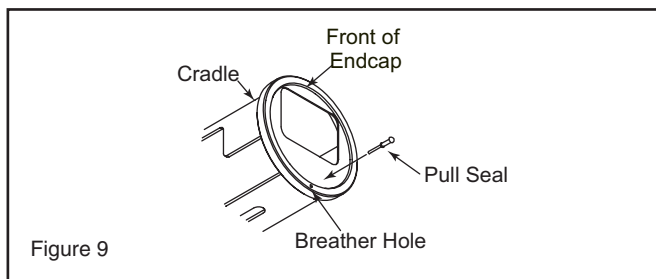


Figure 9

4. Grip the pull seal's long end from the back of the front endcap. Steadily pull the long end until the head of the pull seal is flat against the front of the endcap (Figure 10).

NOTE: The Pull Seal's long end will stretch when pulled through the breather hole.

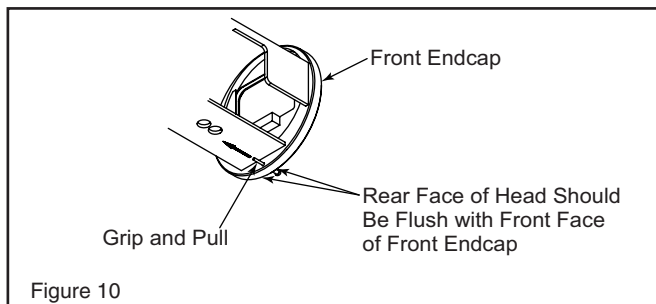


Figure 10

1. Reinsert the cradle assembly. Turn the slot on the retaining ring to the top of the rear cap (Figure 11).

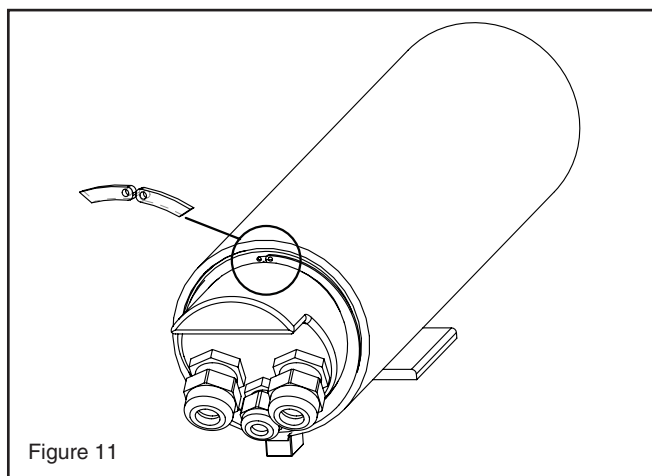


Figure 11

2. Position the housing vertically and replace the cradle assembly by applying pressure onto the rear cap until the retaining ring stops against the housing. (see Figure 12).

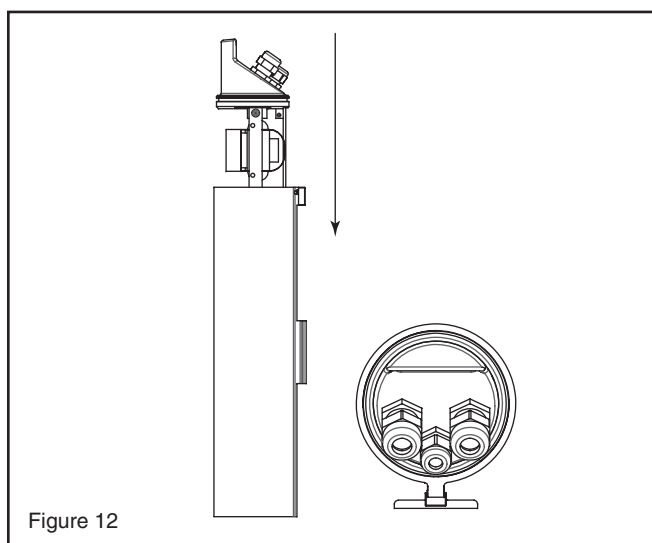


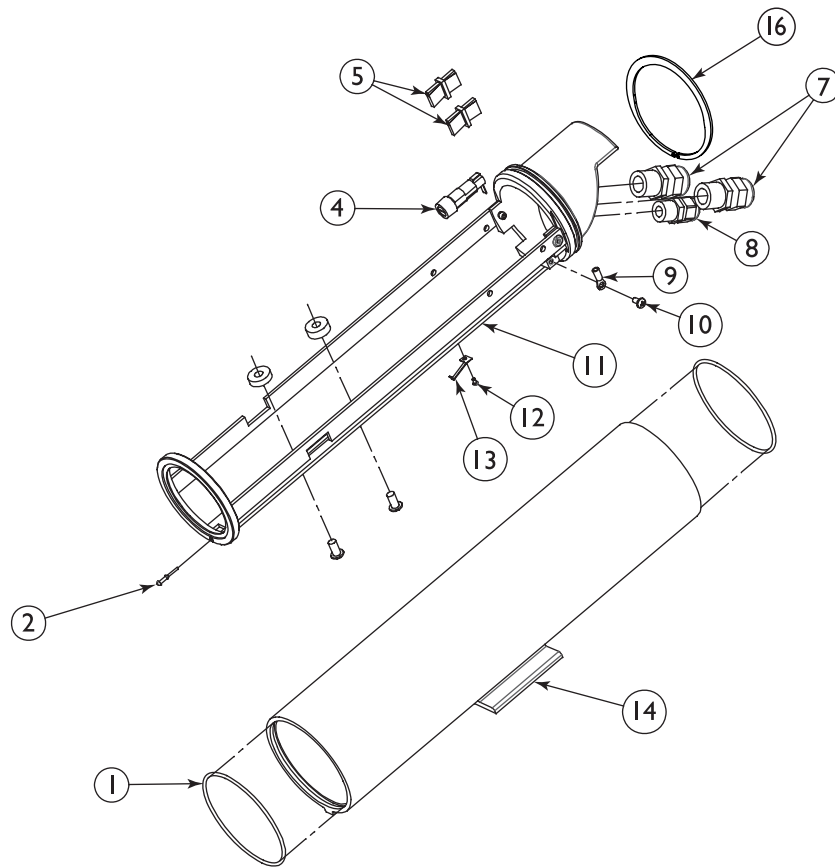
Figure 12



CAUTION: If a pull seal is installed in the breather hole, be careful not to pinch the head of the pull seal. Damage to the pull seal may allow water to enter the housing, causing damage to the camera and lens.

3. Tighten the retention screw, making sure it is seated into the rear cap groove. If the housing needs to be tamperresistant, the HS9380TK (purchased separately) should be installed at this time.
4. Attach the housing to the appropriate mount or pan/tilt using the instructions provided. According to the orientation of the housing, the cradle assembly may need to be rotated. To rotate the cradle assembly (while mounted), grasp the rear handle and rotate to the desired position. View the monitor while rotating.

EXPLODED VIEW



Ref No.	Part Number	Qty.	Part Description
Heyco Fitting Kit – 315 3802-001			
7	-	2	3/4 NPT
8	-	1	3/8 NPT
Cradle Assembly Kit – 315 3803-001			
11	-	1	Cradle/Heater Assembly
16	-	1	Retaining Ring
9	-	1	Ring Tongue Terminal
13	-	1	Ground Slide
10	-	1	M4 Phillips Head Screw
12	-	1	XXX Philips Head Screw
2	-	1	Pull Seal
Housing Kit – 315 3807-001			
11	-	1	Housing
1	-	2	Silicone O-ring

IMPORTANT SAFEGUARDS

1. **Read Instructions** - All the safety and operating instructions should be read before the unit is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the unit and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating & user instructions should be followed.
5. **Electrical Connections** - Only a qualified electrician should make electrical connections.
6. **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. **Cable Runs** - All cable runs must be within permissible distance.
8. **Mounting** - This unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit. Accordingly:
 - a. Installation should be made by a qualified installer.
 - b. Installation should be in compliance with local codes.
 - c. Care should be exercised to select suitable hardware to install the unit, taking into account both the composition of the mounting surface and the weight of the unit. Be sure to periodically examine the unit and the supporting structure to make sure that the integrity of the installation is intact. Failure to comply with the foregoing could result in the unit separating from the support structure and falling, with resultant damages or injury to anyone or anything struck by the falling unit.

UNPACKING

Unpack carefully. Electronic components can be damaged if improperly handled or dropped. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper. **Be sure to save:**

1. The shipping carton and packaging material. They are the safest material in which to make future shipments of the equipment.
2. These Installation and Operating Instructions.

LIMITED WARRANTY FOR VIDEOARM INC. PRODUCTS

VIDEOARM INC. warrants this Product to be free from defects in material or workmanship, as follows:

PRODUCT CATEGORY	PARTS	LABOR
All Enclosures and Electronics	Five (5) Years	Five (5) Years
Pan/Tilts	Three (3) Years **6 months if used in autoscan	Three (3) Years **6 months if used in autoscan
Poles/PoleEvators	Three (3) Years / four operation	Three (3) Years / four operation
Warrior/Q-View/I.R. Illuminators	Five (5) Years	Five (5) Years
SView Series	Five (5) Years **6 months if used in autoscan	Five (5) Years **6 months if used in autoscan
Controllers	Five (5) Years / four operation	Five (5) Years / four operation
Power Supplies	Five (5) Years	Five (5) Years
Accessory Brackets	Five (5) Years	Five (5) Years

During the labor warranty period, to repair the Product, Purchaser will either return the defective product, freight prepaid, or deliver it to Videolarm Inc. Decatur GA. The Product to be repaired is to be returned in either its original carton or a similar package affording an equal degree of protection with a RMA # (Return Materials Authorization number) displayed on the outer box or packing slip. To obtain a RMA# you must contact our Technical Support Team at 800.554.1124, extension 101. Videolarm will return the repaired Product freight prepaid to Purchaser. Videolarm is not obligated to provide Purchaser with a substitute unit during the warranty period or at any time. After the applicable warranty period, Purchaser must pay all labor and/or parts charges.

The limited warranty stated in these product instructions is subject to all of the following terms and conditions:

1. NOTIFICATION OF CLAIMS: WARRANTY SERVICE: If Purchaser believes that the Product is defective in material or workmanship, then written notice with an explanation of the claim shall be given promptly by Purchaser to Videolarm but all claims for warranty service must be made within the warranty period. If after investigation Videolarm determines that the reported problem was not covered by the warranty, Purchaser shall pay Videolarm for the cost of investigating the problem at its then prevailing per incident billable rate. No repair or replacement of any Product or part thereof shall extend the warranty period as to the entire Product. The specific warranty on the repaired part only shall be in effect for a period of ninety (90) days following the repair or replacement of that part or the remaining period of the Product parts warranty, whichever is greater.

2. EXCLUSIVE REMEDY: ACCEPTANCE: Purchaser's exclusive remedy and Videolarm's sole obligation is to supply (or pay for) all labor necessary to repair any Product found to be defective within the warranty period and to supply, at no extra charge, new or rebuilt replacements for defective parts.

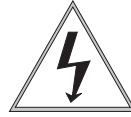
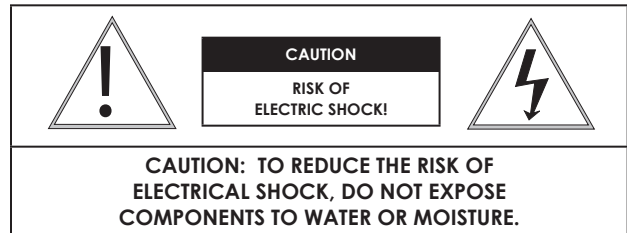
3. EXCEPTIONS TO LIMITED WARRANTY: Videolarm shall have no liability or obligation to Purchaser with respect to any Product requiring service during the warranty period which is subjected to any of the following: abuse, improper use: negligence, accident, lightning damage or other acts of God (i.e., hurricanes, earthquakes), modification, failure of the end-user to follow the directions outlined in the product instructions, failure of the end-user to follow the maintenance procedures recommended by the International Security Industry Organization, written in product instructions, or recommended in the service manual for the Product. Furthermore, Videolarm shall have no liability where a schedule is specified for regular replacement or maintenance or cleaning of certain parts (based on usage) and the end-user has failed to follow such schedule; attempted repair by non-qualified personnel; operation of the Product outside of the published environmental and electrical parameters, or if such Product's original identification (trademark, serial number) markings have been defaced, altered, or removed. Videolarm excludes from warranty coverage Products sold AS IS and/or WITH ALL FAULTS and excludes used Products which have not been sold by Videolarm to the Purchaser. All software and accompanying documentation furnished with, or as part of the Product is furnished "AS IS" (i.e., without any warranty of any kind), except where expressly provided otherwise in any documentation or license agreement furnished with the Product.

4. PROOF OF PURCHASE: The Purchaser's dated bill of sale must be retained as evidence of the date of purchase and to establish warranty eligibility.

DISCLAIMER OF WARRANTY EXCEPT FOR THE FOREGOING WARRANTIES, VIDEOARM HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY AND/OR ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY WARRANTY WITH REGARD TO ANY CLAIM OF INFRINGEMENT THAT MAY BE PROVIDED IN SECTION 2-312(3) OF THE UNIFORM COMMERCIAL CODE AND/OR IN ANY OTHER COMPARABLE STATE STATUTE. VIDEOARM HEREBY DISCLAIMS ANY REPRESENTATIONS OR WARRANTY THAT THE PRODUCT IS COMPATIBLE WITH ANY COMBINATION OF NON-VIDEOARM PRODUCTS OR NON-VIDEOARM RECOMMENDED PRODUCTS PURCHASER CHOOSES TO CONNECT TO PRODUCT.

LIMITATION OF LIABILITY THE LIABILITY OF VIDEOARM, IF ANY, AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF THE LEGAL THEORY AND WHETHER ARISING IN TORT OR CONTRACT, SHALL NOT BE GREATER THAN THE ACTUAL PURCHASE PRICE OF THE PRODUCT WITH RESPECT TO WHICH SUCH CLAIM IS MADE. IN NO EVENT SHALL VIDEOARM BE LIABLE TO PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS OR FOR ANY OTHER REASON WHATSOEVER.

SAFETY PRECAUTIONS



The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SERVICE

If the unit ever needs repair service, customer should contact Videolarm (1-800-554-1124) for return authorization & shipping instructions.

TECHNICAL SUPPORT

Videolarm has set-up a 24 hour technical support line for their customers.

24 HOUR TECHNICAL SUPPORT

1-800-554-1124

Product Registration/Warranty

Thank you for choosing Videolarm. We value your patronage and are solely committed to providing you with only the highest quality products available with unmatched customer service levels that are second-to-none in the security industry.

Should a problem arise, rest assure that Videolarm stands behind its products by offering some of the most impressive warranty plans available: **3 Years** on all Housings, Poles, Power Supplies, and Accessories and **5 Years** on all camera systems (SView, QView, Warriors), and InfraRed Illuminators.



Register Your Products

Option 1: **Online** *Option 2:* **Mail-In**

Take a few moments and validate your purchase with our **Online Product Registration Form** at **www.videolarm.com/productregistration.jsp** or complete and mail-in the bottom portion of this flyer.

Register your recent Videolarm purchases and benefit from the following:

- Simple and Trouble-Free RMA process
- Added into customer database to receive product updates / news
- Eliminate the need to archive original purchase documents: Receipts, Purchase Orders, etc...



Cut at the dotted line

Place in envelope, affix stamp and mail to: **Videolarm ATTN: Warranty**
2525 Park Central Ave.
Decatur, GA 30035

Main Contact Info

First Name: _____ Last Name: _____
Professional Title: _____ Company: _____
Address 1: _____ Address 2: _____
City: _____ State / Province/Country: _____
Zip / Postal Code: _____ Phone Number: _____ E-mail Address: _____

Product Information

Please Circle One:

Business

Personal

Name & Location of Company / Store where Purchased: _____
(City, State, Country)

Videolarm Product ID _____ Product Description _____

Serial # _____

(Available only for Camera Systems, IR Illuminators, Wireless Devices)

PO# _____